

Property Profile ZrO₂/MgO 76/24 - Coating

- High wear resistance due to high hardness
- Ductility
- Electrically isolating

Product Number:

IKH 12101

Grain Size Distribution

| Grain Size | Distribution |
|------------|--------------|
| 37 | -125 +45 μm |
| 36 | -106 +45 μm |
| 20 | -90 +45 μm |
| 19 | -63 +16 μm |
| 16 | -45 +22 μm |
| 07 | -25 +5 μm |

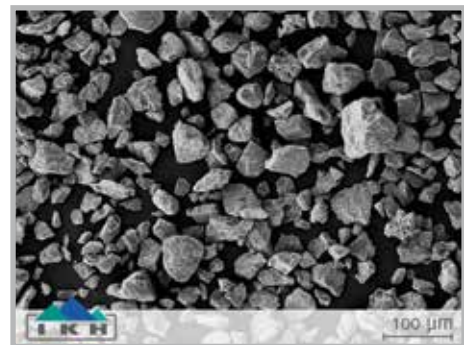
*other grainsizes on request



Alstom Power Systems Turbomachines Group

Typical Chemical Composition

| | |
|--------------------------------|----------|
| ZrO ₂ | base |
| SiO ₂ | < 0,2 % |
| TiO ₂ | < 0,1 % |
| Fe ₂ O ₃ | < 0,1 % |
| MgO | ~ 24,0 % |
| CaO | < 0,1 % |
| Al ₂ O ₃ | < 0,1 % |



Coating Properties

Hardness: approx. 1200 HV 0,3

Applicable up to 2.500 °C

Spray Parameters

| Plasmagenerator | F4 |
|----------------------------------|-----|
| Plasma Gas Ar (SLPM) | 40 |
| Plasma Gas H ₂ (SLPM) | 9 |
| Current (A) | 580 |
| Spray Distance (mm) | 120 |

